

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device to generate pulsed motions, comprising:
 - (A) ~~Two~~two parallel shafts (3; 4), each of said parallel shafts having a longitudinal axis (5; 6), ~~each having a rear end (7; 8), and each having a front end (9; 10);~~
 - (B) a gear unit (2) comprising at least two gears (20; 21) , at least one of said two ~~at least two~~ gears (20) being oval gears and each gear (20; 21) being connected to one of the rear ends (7; 8) of the two shafts (3; 4);
 - (C) ~~Two~~two arcuate drive levers (30; 31), each of said arcuate drive levers having a first end (32; 33) and ~~each having at least one second end (34; 35), where~~ each first end (32; 33) of the drive levers (30; 31) ~~are~~is connected in rotatable manner with one respective front end (9; 10) of the two shafts (3; 4) about a first axis of rotation (11; 12); and
 - (E) a drive body (40) connected to the second ends (34; 35) of the drive levers (30; 31) so as to be rotatable about two second axes of rotation (13; 14), ~~characterized in that~~wherein
 - (F) ~~The~~the drive body (40) is a polysomic body, ~~i.e. an oloid,~~
 - (G) ~~The~~the legs of each arcuate drive lever (30; 31) subtend a plane (36;

37) and the second axes of rotation (13; 14) are situated in the planes (36; 37),

(H) ~~The~~the two second axes of rotation (13; 14) are spaced a distance A(A) apart

(I) at each drive lever (30; 31) the first axis of rotation (11; 12) and the second axis of rotation (13; 14) are separated by a gap (B)B, and

(J) wherein the distance (A) is equal to the gap (B)A = B.

2. (Currently Amended) ~~A~~The device as claimed in claim 1, ~~characterized in that~~wherein the first axes of rotation (11; 12) are transverse to the planes (36; 37).

3. (Currently Amended) ~~Device~~The device as claimed in ~~either of claims 1 and 2,~~ characterized in that claim 1, wherein the second axes of rotation (13; 14) are mutually skewed.

4. (Currently Amended) ~~Device~~The device as claimed in ~~one of claims 1 through 3,~~ characterized in that it comprises claim 1, further comprising drive elements (1) to rotatively drive at least one gear (20; 21) in the gear unit (2).

5. (Currently Amended) ~~Device~~The device as claimed in ~~one of claims 1 through 4,~~ characterized in that claim 1, wherein the oval gears (20) exhibit a large semi-axis (a)a and a small semi-axis (b)b and ~~in that~~wherein the shape of the oval is determined in that two mutually engaging gears (20) roll off one another at a constant axial separation in a positively, i.e. geometrically locking manner.

6. (Currently Amended) ~~Device~~ The device as claimed in ~~one of claims 1 through 5, characterized in that claim 1, wherein~~ the distance between the axes of two mutually engaging oval gears (20) is composed of the sum of the large semi-axis (a)~~a~~ and the small semi-axis (b)~~b~~ of ~~these the~~ two oval gears (20).

7. (Currently Amended) ~~Device~~ The device as claimed in ~~one of claims 1 through 6, characterized at least claim 1, wherein~~ one oval gear (20) exhibits a ratio of its small semi-axis (b)~~b~~ to its large semi-axis a(a) of $1/\sqrt{2}$.

8. (Currently Amended) ~~Device~~ The device as claimed in ~~one of claims 1 through 7, characterized in that claim 1, wherein~~ at least one oval gear (20) exhibits a ratio of its small semi-axis ~~b~~ (b) to its large semi-axis ~~a~~ (b) of $1/2$.

Claims 9-13 (Cancelled)